



Applicant Copy
PTO/SB/08 (2-92)
Sheet 1 of 2

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 300623002610

Application Number 09/825,621

Applicant

Christopher REEVES et al.

Filing Date April 3, 2001

Group Art Unit 1652

Mailing Date April 5, 2002

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	10/1989	4,874,748	Katz et al.	514	29	
	2.	11/1991	5,063,155	Gen et al.	435	76	
	3.	03/1992	5,098,837	Beckmann et al.	435	172.3	
	4.	09/1992	5,149,639	Katz et al.	435	76	
	5.	02/1993	5,189,042	Goulet et al.	514	291	
<i>Av</i>	6.	09/1997	5,672,491	Khosla et al.	435	148	
<i>Av</i>	7.	01/1998	5,712,146	Khosla et al.	435	252.35	
<i>Av</i>	8.	10/1998	5,824,513	Katz et al.	435	76	
<i>Av</i>	9.	11/1998	5,830,750	Khosla et al.	435	252.35	
<i>I</i>	10.	12/1998	5,843,718	Khosla et al.	485	69.1	
<i>I</i>	11.	10/1999	5,962,290	Khosla et al.	435	183	
<i>Av</i>	12.	02/2000	6,022,731	Khosla et al.	435	252.35	
<i>Av</i>	13.	06/2000	6,077,696	Khosla et al.	435	135	
	14.	11/2000	6,150,513	Wu	536	22.3	

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES	NO
<i>Av</i>	15.	07/05/1989	EP 0323042A	EPO				
<i>Av</i>	16.	02/28/1990	EP 0356399A	EPO				
<i>Av</i>	17.	01/02/1992	EP 0463690A	EPO				
	18.	07/1993	WO 93/13663	WIPO				
	19.	02/1995	WO 95/08548	WIPO				
	20.	12/1996	WO 96/40962	WIPO				
	21.	01/1997	WO 97/02258	WIPO				
	22.	06/1998	WO 98/27203	WIPO				

EXAMINER:

Amelia T...

DATE CONSIDERED:

4-4-2003

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)

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INFORMATION DISCLOSURE CITATION
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Docket Number 300622002610

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23	11/1998	WO 98/49315	WFO
24	04/2000	WO 00/20601	WFO

OTHER DOCUMENTS

(including author, title, date, pertinent pages, etc.)

Examiner Initials	Ref. No.	Title
	25.	Caffrey et al., 1992, FEBS Letters 304:205
Au	26.	Chen T.S. et al. (1992). "Microbial Transformation of Immunosuppressive Compounds. II. Specific desmethylation of 13-methoxy group of FK 506 and FR 9500520 by Actinomyces sp. ATCC 53828," <i>J Antibiot</i> 45(4):577-580.
Au	27.	Dumont F.J. et al. (1992). "The Immunosuppressive and Toxic Effects of FK-506 Are Mechanically Related: Pharmacology of a Novel Antagonist of FK-506 and Rapamycin," <i>J of Exp Medicine</i> 176(3):751-760.
	28.	Fu et al., 1994, <i>Biochemistry</i> 33: 9321-9326
Au	29.	Iwasaki et al., (1993) <i>Drug Metabolism and Disposition</i> 21:971-977
Au	30.	Iwasaki et al., (1995) <i>Drug Metabolism and Disposition</i> 23:28-34
Au	31.	Kawai et al., (1993) <i>FEBS Letters</i> 316(2):107-113
Au	32.	Khosla C. (1997). "Harnessing the Biosynthetic Potential of Modular Polyketide Synthases," <i>Chemical Reviews</i> 97(7):2577-2590.
	33.	McDaniel et al., 1993, Science 262: 1546-1550
Au	34.	Motamedi et al., (1996) <i>J. Bacteriol.</i> 178:5243-5248
Au	35.	Motamedi et al., (1997) <i>Eur. J. Biochem.</i> 244:78-80
Au	36.	Motamedi and Shafiee, (1998) <i>Eur. J. Biochem.</i> 256:528
Au	37.	Reynolds K.A. et al. (1997). "Rapamycin, FK506, and Ascomycin-related Compounds," <i>Drugs Pharm Sci</i> 82:497-520.
	38.	Rotz, 1995, Angew. Chem. Int. Ed. Engl. 34(6): 881-888
Au	39.	Shafiee A. et al. (1993). "Enzymatic synthesis and Immunosuppressive Activity of Novel Desmethylated Immunomycins (Ascomycins)," <i>J Antibiot</i> 46(9):1397-1405.
Au	40.	Stassi D.L. et al. (1998). "Ethyl-substituted Erythromycin Derivatives Produced by Directed Metabolic Engineering," <i>Proc Natl Acad Sci USA</i> 95 (13):7305-7309.
Au	41.	Wu et al., (2000) <i>Gene</i> 251:81-90

EXAMINER:

Amelia Owen

DATE CONSIDERED:

4-4-2003

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PTO/SB/08 (2-92)

Sheet 1 of 1

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 300622002600

Application Number Unassigned

Applicant

Christopher REEVES et al.

Filing Date October 1, 1999

Group Art Unit Unassigned

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
KK	1.	02/23/93	5,189,042	Goulet et al.	—	—	
KK	2.	09/30/97	5,672,491	Khosla et al.	—	—	
KK	3.	01/27/98	5,712,146	Khosla et al.	—	—	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, date, pertinent pages, etc.)

Examiner Initials	Ref. No.	Title
KK	4.	Iwasaki et al., 1995, Further metabolism of FK506 (Tacrolimus); Identification and biological activities of the metabolites oxidized at multiple sites of FK506, <i>Drug Metabolism & Disposition</i> 23: 28-34
KK	5.	Iwasaki et al., 1993, Isolation, identification, and biological activities of oxidative metabolites of FK506, a potent immunosuppressive macrolide lactone, <i>Drug Metabolism & Disposition</i> 21: 971-977
KK	6.	Kawai et al., Jan. 1993, Structure-activity profiles of macrolactam immunosuppressant FK-506 analogues, <i>FEBS Letters</i> 316(2): 107-113
KK	7.	Motamedi et al., 1998, The biosynthetic gene cluster for the macrolactone ring of the immunosuppressant FK506, <i>Eur. J. Biochem.</i> 256: 528-534
KK	8.	Motamedi et al., 1997, Structural organization of a multifunctional polyketide synthase involved in the biosynthesis of the macrolide immunosuppressant FK506, <i>Eur. J. Biochem.</i> 244: 74-80
KK	9.	Motamedi et al., 1996, Characterization of methyltransferase and hydroxylase genes involved in the biosynthesis of the immunosuppressants FK506 and FK520, <i>J. Bacteriol.</i> 178: 5243-5248

EXAMINER: (examiner) *Kat*

DATE CONSIDERED: 4/21/01

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PTO/SB/08 (2-92)

Sheet 1 of 1

Form PTO-1449

INFORMATION DISCLOSURE CITATION
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(Use several sheets if necessary)

Docket Number 300622002600

Application Number 09/410,551

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Christopher REEVES et al.

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U.S. PATENT DOCUMENTS

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	3.	03/1992	5,098,837	Beckmann et al.	435	172.3	
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	8.	12/1996	WO 96/40968	WIPO			
	9.	01/1997	WO 97/02358	WIPO			
	10.	06/1998	WO 98/27203	WIPO			
	11.	11/1998	WO 98/49315	WIPO			
V	12.	04/2000	WO 00/20601	WIPO			

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(Including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
KK	13.	Caffrey et al., FEBS Letters (1992) 304:205
	14.	Fu et al., Biochemistry (1994) 33:9321-9326
	15.	McDaniel et al., Science (1993) 262:1546-1550
V	16.	Rohr, Angew. Chem. Int. Ed. Engl. (1995) 34(8):881-888

EXAMINER:

Kathleen

DATE CONSIDERED:

7/31/02

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